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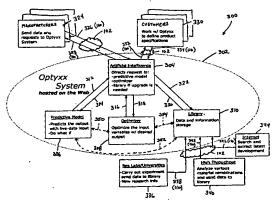
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(54) Title: COMPUTER-IMPLEMENTED SYSTEM AND METHOD FOR MEASURING AND IMPROVING MANUFACTURING PROCESSES AND MAXIMIZING PRODUCT RESEARCH AND DEVELOPMENT SPEED AND EFFICIENCY



(57) Abstract: An integrated multi-step computer-implemented system and method for measuring and improving manufacturing processes and maximizing product research and development speed and efficiency is disclosed. The system includes a predictive model (306) that predicts output from data input, an optimizer (308) that optimizes input variables based upon desired output variables, and a library (310) that stores data and information. The system further includes an artificial intelligence (304) that receives requests and information from manufacturers (324) and customers (330), and directs the requests and information to the predictive model (306) if an output prediction is requested, to the optimizer (308) if an optimized input is requested, or to the library (310) if the requests cannot be answered by the predictive model (306) or optimizer (308). The predictive model (306), the optimizer (308), and the library (310) all interconnect with the artificial intelligence (324). The system further includes a high-throughput screening system (340) that analyzes various material combinations and sends data to the library (310).



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Electronic data base consulted during the international search (name Google, Digital Library	of data base and, where practicable, searc	ch terms used)	
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
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